SURREBUTTAL TESTIMONY OF

PANDELIS "LEE" N. XANTHAKOS

ON BEHALF OF

DOMINION ENERGY SOUTH CAROLINA, INC.

DOCKET NO. 2020-63-E

1	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND
2		OCCUPATION.
3	A.	My name is Pandelis ("Lee") N. Xanthakos. My business address is 220
4		Operation Way, Cayce, South Carolina. I am the Vice President of Electric
5		Transmission for Dominion Energy South Carolina, Inc. ("DESC").
6		
7	Q.	ARE YOU THE SAME LEE XANTHAKOS THAT OFFERED DIRECT
8		TESTIMONY IN THIS DOCKET?
9	A.	Yes, I am.
10		

Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?

11

12

13

14

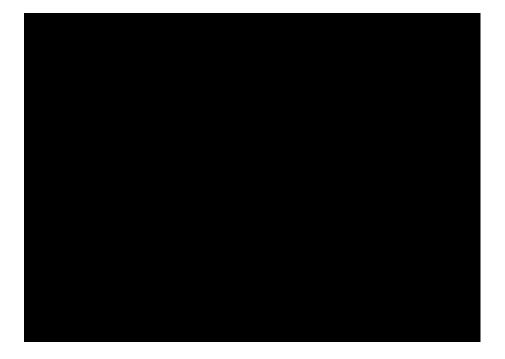
15

A. The purpose of my testimony is to address items raised by Bridgestone Americas Tire Operations, LLC ("BATO") in the rebuttal testimony of Witness McGavran related to the solar generating facility ("Generating Facility") which BATO proposes to place into operation. Specifically, I will explain why the

1		rebuttal testimony of BATO Witness McGavran clearly misunderstands (i) the
2		configuration of the DESC system, the Generating Facility, and BATO's plant and
3		(ii) the nature of the compliance obligations by which DESC must abide.
4		
5	Q.	ARE YOU PROVIDING ANY EXHIBITS WITH YOUR SURREBUTTAL
6		TESTIMONY?
7	A.	Yes. I am providing (i) a one-line diagram as Exhibit No (PNX-1), (ii)
8		FAC-002-2 as Exhibit No (PNX-2), and (iii) PRC-001-1 as Exhibit No
9		(PNX-3).
10		
11	Q.	ON PAGE 2, LINE 22 THROUGH LINE 23, BATO WITNESS MCGAVRAN
12		STATES THAT "FOR PARALLEL OPERATION OF THE [GENERATING
13		FACILITY] TO OCCUR, BATO AND DESC WOULD HAVE TO BE
14		CONNECTED DIRECTLY TO THE SAME BUS AND SHARE A COMMON
15		POINT OF INTERCONNECTION." HOW WOULD YOU ADDRESS THIS
16		STATEMENT?
17	A.	BATO Witness McGavran confuses two issues. As I described in my direct
18		testimony, the South Carolina Standard does not distinguish upon the type of
19		connection, but rather upon the type of operation. That is, any generator operating
20		in parallel with the DESC system is subject to the South Carolina Standard.
21		Certainly, the requirement that the Generating Facility be "connected directly to the

same bus and share a common point of interconnection" is simply another standard conjured by BATO that finds no support within the South Carolina Standard.

Regardless, even if BATO's proffered standard was a requirement, I have illustrated precisely where and how the Generating Facility is interconnected and operates in parallel with the DESC system in Exhibit No. __ (PNX-1), which is a portion of the one-line diagram provided by BATO in its interconnection request. I have modified it to contain my annotations, which are marked in red. For ease of reference, I have included a portion of the exhibit below:



Simply put, BATO Witness McGavran's testimony that the DESC system, the Generating Facility, and the BATO facility do not come together at the same point is simply incorrect. In fact, the red lines I have included on the one-line

diagram trace each connection arising from the connection or the common node back to its source. As such, it is clear that at the red circle, the DESC system, the Generating Facility, and a portion of BATO's load come together within BATO's facility at the same bus. It does not matter whether the bus is owned by DESC or BATO. Any operation of the Generating Facility while DESC is supplying power to the BATO facility would result in parallel operation. What the one-line diagram shows is a simple, straight-forward example of parallel operation—the exact concept invoked by the South Carolina Standard and the exact opposite of what BATO Witness McGavran sets forth in his testimony.

10

11

12

13

14

15

16

17

18

19

20

21

Q.

A.

1

2

3

4

5

6

7

8

9

ON PAGE 3, LINE 19, THROUGH PAGE 4, LINE 15, BATO WITNESS MCGAVRAN STATES THAT THE GENERATING FACILITY IS NOT TIED TO THE "BULK ELECTRIC SYSTEM." IS THIS TRUE?

No, it is not. Again, BATO Witness McGavran misinterprets my testimony and confuses two separate principles. To be clear, DESC never suggested—as BATO Witness McGavran claims—that the Generating Facility is part of the Bulk Electric System ("BES"). This notion is reflected in the definition cited by BATO Witness McGavran, which simply exempts the Generating Facility from the BES for the purpose of North American Electric Reliability Corporation ("NERC") standards compliance. On that point, we are in agreement. However, it does not mean that the Generating Facility's interconnection could not affect the BES—

especially since the BATO plant is fed power via DESC assets which comprise BES assets. To argue otherwise is simply illogical. To what extent it could affect the DESC system or the BES is something that DESC will study and examine under the South Carolina Standard when the Generating Facility comes up in the queue. As such, I stand by my statement that DESC needs to evaluate the Generating Facility to ensure that it does not adversely affect any portion of the BES or the DESC system with which it seeks to interconnect—regardless of whether the Generating Facility is subject to NERC compliance responsibilities.

9

10

11

12

13

14

15

16

17

18

19

20

21

Α.

1

2

3

4

5

6

7

8

Q. DOES THE GENERATING FACILITY TRIGGER ANY OF DESC'S NERC **OBLIGATIONS?**

Yes. DESC is a NERC registered entity with significant compliance responsibilities. DESC provides power to serve BATO's facility directly from a 115 kV BES transmission line due to the sheer size of BATO's load. As such, NERC Reliability Standard FAC-002-2 applies, which I have attached as Exhibit No. (PNX-2). The purpose of FAC-002-2 is to "study the impact of interconnecting new or materially modified Facilities on the Bulk Electric System." The standard very clearly states that DESC "shall study the reliability impact of . . . interconnecting new generation."

In addition, NERC Standard PRC-001-1 is certainly applicable. I have attached PRC-001-1 as Exhibit No. __ (PNX-3), and the purpose of this standard is to ensure system protection is coordinated among operating entities. This is particularly critical for BATO's facility given that DESC has a non-standard automatic switching scheme in place on its transmission system—which was installed in agreement and coordination with BATO—to improve BATO load restoration in the event of a fault.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

O.

A.

1

2

3

4

5

COULD DESC PROVIDE NERC WITH ANY OF BATO'S ARGUMENTS YOU LISTED ABOVE IN ORDER TO EXEMPT DESC FROM STUDYING THE GENERATING FACILITY UNDER THE APPLICABLE NERC STANDARDS?

No. NERC does not allow DESC to show examples of unrelated operations to justify non-compliance with its mandatory rules. Additionally, DESC has to make sure system protection is coordinated under PRC-001-1, regardless of whether DESC knows the requirements of BATO's load or other events that may or may not be relevant on the DESC system. Just like if DESC failed to comply with one of the Commission's requirements, it would be a violation of the rules if DESC did not comply with these mandatory reliability standards as they relate to interconnecting generators. As such, the provisions of the South Carolina Standard are not the only regulations that are binding upon DESC that mandates this type of interconnection and generation must be reviewed, at the very least.

21

20

1	Q.	ON PAGE 4, LINE 24 THROUGH LINE 25, BATO WITNESS MCGAVRAN
2		STATES THAT YOU ARE INCORRECT IN YOUR DIRECT TESTIMONY
3		WHEN YOU STATE "THAT [THE GENERATING FACILITY]
4		CONNECTS TO THE SAME NODE OR POINT OF CONNECTION." HOW
5		DO YOU RESPOND TO THIS ALLEGATION?
6	A.	As discussed above, BATO Witness McGavran either mischaracterizes or
7		simply and fundamentally misunderstands the configuration of the DESC system,
8		the Generating Facility, and the BATO facility. My original testimony was correct,
9		as evidenced by Exhibit No (PNX-1). The circle and corresponding lines very
10		clearly indicate the node at which the DESC system, the Generating Facility, and
11		the BATO load connect to each other at a common point. BATO Witness
12		McGavran is simply incorrect.
13		
14	Q.	DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

Yes.

15

A.

Exhibit No	(PNX-1)
Page 1 of 1	田

A. Introduction

1. Title: Facility Interconnection Studies

2. Number: FAC-002-2

3. Purpose: To study the impact of interconnecting new or materially modified Facilities on the Bulk Electric System.

4. Applicability:

4.1. Functional Entities:

- **4.1.1** Planning Coordinator
- **4.1.2** Transmission Planner
- **4.1.3** Transmission Owner
- **4.1.4** Distribution Provider
- **4.1.5** Generator Owner
- **4.1.6** Applicable Generator Owner
 - **4.1.6.1** Generator Owner with a fully executed Agreement to conduct a study on the reliability impact of interconnecting a third party Facility to the Generator Owner's existing Facility that is used to interconnect to the Transmission system.
- **4.1.7** Load-Serving Entity
- 5. Effective Date: The first day of the first calendar quarter that is one year after the date that this standard is approved by an applicable governmental authority or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective on the first day of the first calendar quarter that is one year after the date this standard is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction.

B. Requirements and Measures

- **R1.** Each Transmission Planner and each Planning Coordinator shall study the reliability impact of: (i) interconnecting new generation, transmission, or electricity end-user Facilities and (ii) materially modifying existing interconnections of generation, transmission, or electricity end-user Facilities. The following shall be studied: [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]
 - **1.1.** The reliability impact of the new interconnection, or materially modified existing interconnection, on affected system(s);
 - **1.2.** Adherence to applicable NERC Reliability Standards; regional and Transmission Owner planning criteria; and Facility interconnection requirements;
 - **1.3.** Steady-state, short-circuit, and dynamics studies, as necessary, to evaluate system performance under both normal and contingency conditions; and

Exhibit No.	(PNX-2
Page 2 of 8	

- **1.4.** Study assumptions, system performance, alternatives considered, and coordinated recommendations. While these studies may be performed independently, the results shall be evaluated and coordinated by the entities involved.
- **M1.** Each Transmission Planner or each Planning Coordinator shall have evidence (such as study reports, including documentation of reliability issues) that it met all requirements in Requirement R1.
- **R2.** Each Generator Owner seeking to interconnect new generation Facilities, or to materially modify existing interconnections of generation Facilities, shall coordinate and cooperate on studies with its Transmission Planner or Planning Coordinator, including but not limited to the provision of data as described in R1, Parts 1.1-1.4. [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]
- **M2.** Each Generator Owner shall have evidence (such as documents containing the data provided in response to the requests of the Transmission Planner or Planning Coordinator) that it met all requirements in Requirement R2.
- **R3.** Each Transmission Owner, each Distribution Provider, and each Load-Serving Entity seeking to interconnect new transmission Facilities or electricity end-user Facilities, or to materially modify existing interconnections of transmission Facilities or electricity end-user Facilities, shall coordinate and cooperate on studies with its Transmission Planner or Planning Coordinator, including but not limited to the provision of data as described in R1, Parts 1.1-1.4. [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]
- **M3.** Each Transmission Owner, each Distribution Provider, and each Load-Serving Entity shall have evidence (such as documents containing the data provided in response to the requests of the Transmission Planner or Planning Coordinator) that it met all requirements in Requirement R3.
- **R4.** Each Transmission Owner shall coordinate and cooperate with its Transmission Planner or Planning Coordinator on studies regarding requested new or materially modified interconnections to its Facilities, including but not limited to the provision of data as described in R1, Parts 1.1-1.4. [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]
- **M4.** Each Transmission Owner shall have evidence (such as documents containing the data provided in response to the requests of the Transmission Planner or Planning Coordinator) that it met all requirements in Requirement R4.
- **R5.** Each applicable Generator Owner shall coordinate and cooperate with its Transmission Planner or Planning Coordinator on studies regarding requested interconnections to its Facilities, including but not limited to the provision of data as described in R1, Parts 1.1-1.4. [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]
- **M5.** Each applicable Generator Owner shall have evidence (such as documents containing the data provided in response to the requests of the Transmission Planner or Planning Coordinator) that it met all requirements in Requirement R5.

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

As defined in the NERC Rules of Procedure, "Compliance Enforcement Authority" (CEA) means NERC or the Regional Entity in their respective roles of monitoring and enforcing compliance with the NERC Reliability Standards.

1.2. Evidence Retention

The following evidence retention periods identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the CEA may ask an entity to provide other evidence to show that it was compliant for the full time period since the last audit.

The Planning Coordinator, Transmission Planner, Transmission Owner, Distribution Provider, Generator Owner, applicable Generator Owner, and Load-Serving Entity shall keep data or evidence to show compliance as identified below unless directed by its CEA to retain specific evidence for a longer period of time as part of an investigation:

The responsible entities shall retain documentation as evidence for three years.

If a responsible entity is found non-compliant, it shall keep information related to the non-compliance until mitigation is complete and approved or for the time specified above, whichever is longer.

The CEA shall keep the last audit records and all requested and submitted subsequent audit records.

1.3. Compliance Monitoring and Assessment Processes:

Compliance Audit

Self-Certification

Spot Check

Compliance Investigation

Self-Reporting

Complaint

1.4. Additional Compliance Information

None

ELECTRONICALLY FILED - 2020 July 14 4:54 PM - SCPSC - Docket # 2020-63-E - Page 12 of 22

Table of Compliance Elements

R #	Time Horizon	VRF	Violation Severity Levels			
	110112011		Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	Long-term Planning	Medium	The Transmission Planner or Planning Coordinator studied the reliability impact of: (i) interconnecting new generation, transmission, or electricity end-user Facilities, and (ii) materially modifying existing interconnections of generation, transmission, or electricity end-user Facilities, but failed to study one of the Parts (R1, 1.1-1.4).	The Transmission Planner or Planning Coordinator studied the reliability impact of: (i) interconnecting new generation, transmission, or electricity end-user Facilities, and (ii) materially modifying existing interconnections of generation, transmission, or electricity end-user Facilities but failed to study two of the Parts (R1, 1.1-1.4).	The Transmission Planner or Planning Coordinator studied the reliability impact of: (i) interconnecting new generation, transmission, or electricity end-user Facilities, and (ii) materially modifying existing interconnections of generation, transmission, or electricity end-user Facilities but failed to study three of the Parts (R1, 1.1-1.4).	The Transmission Planner or Planning Coordinator failed to study the reliability impact of: interconnecting new generation, transmission, or electricity end-user Facilities, and (ii) materially modifying existing interconnections of, generation, transmission, or electricity end-user Facilities.
R2	Long-term Planning	Medium	The Generator Owner seeking to interconnect new generation Facilities, or to materially modify existing interconnections of generation Facilities, coordinated and cooperated on studies	The Generator Owner seeking to interconnect new generation Facilities, or to materially modify existing interconnections of generation Facilities, coordinated and cooperated on studies	The Generator Owner seeking to interconnect new generation Facilities, or to materially modify existing interconnections of generation Facilities, coordinated and cooperated on studies	The Generator Owner seeking to interconnect new generation Facilities, or to materially modify existing interconnections of generation Facilities, failed to coordinate and cooperate on

Ш
ELEC
)K
õ
$\stackrel{Z}{=}$
ELECTRONICAL
<u> </u>
Ξ
FILED
2
0
20 July
ار ا
4 4
Σ
‡PN
<u>≤</u>
S
SCPS
M - SCPSC - Do
Ō
8
(et
2
ocket # 2020-63
6
3-E
<u> </u>
ag
<u>_</u>
13 C
of 2
7

			with its Transmission Planner or Planning Coordinator, but failed to provide data necessary to perform studies as described in one of the Parts (R1, 1.1-1.4).	with its Transmission Planner or Planning Coordinator, but failed to provide data necessary to perform studies as described in two of the Parts (R1, 1.1-1.4).	with its Transmission Planner or Planning Coordinator, but failed to provide data necessary to perform studies as described in three of the Parts (R1, 1.1-1.4).	studies with its Transmission Planner or Planning Coordinator.
R3	Long-term Planning	Medium	The Transmission Owner, Distribution Provider, or Load- Serving Entity seeking to interconnect new transmission Facilities or electricity end-user Facilities, or to materially modify existing interconnections of transmission Facilities or electricity end-user Facilities, coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator, but failed to provide data necessary to perform studies as described in one of the Parts (R1, 1.1-1.4).	The Transmission Owner, Distribution Provider, or Load- Serving Entity seeking to interconnect new transmission Facilities or electricity end-user Facilities, or to materially modify existing interconnections of transmission Facilities or electricity end-user Facilities, coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator, but failed to provide data necessary to perform studies as described in two of the Parts (R1, 1.1-1.4).	The Transmission Owner, Distribution Provider, or Load- Serving Entity seeking to interconnect new transmission Facilities or electricity end-user Facilities, or to materially modify existing interconnections of transmission Facilities or electricity end-user Facilities, coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator, but failed to provide data necessary to perform studies as described in three of the Parts (R1, 1.1-1.4).	The Transmission Owner, Distribution Provider, or Load- Serving Entity seeking to interconnect new transmission Facilities or electricity end-user Facilities, or to materially modify existing interconnections of transmission Facilities or electricity end-user Facilities, failed to coordinate and cooperate on studies with its Transmission Planner or Planning Coordinator.

Щ
щ
ELECTR
ᄁ
9
<u></u> €
TRONICALLY
H
FILED
ED
1
202
Ö
П
20 July 14
1 4:54
42
7
_
S
Ä
M - SCPSC - Doc
<u> </u>
0
옷
et #
7
ocket # 2020-63-E
-0
သို
Щ
'
ag
e
4
of
22

R4	Long-term Planning	Medium	The Transmission Owner coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator regarding requested new or materially modified interconnections to its Facilities, but failed to provide data necessary to perform studies as described in one of the Parts (R1, 1.1-1.4).	The Transmission Owner coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator regarding requested new or materially modified interconnections to its Facilities, but failed to provide data necessary to perform studies as described in two of the Parts (R1, 1.1-1.4).	The Transmission Owner coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator regarding requested new or materially modified interconnections to its Facilities, but failed to provide data necessary to perform studies as described in three of the Parts (R1, 1.1-1.4).	The Transmission Owner failed to coordinate and cooperate on studies with its Transmission Planner or Planning Coordinator regarding requested new or materially modified interconnections to its Facilities.
R5	Long-term Planning	Medium	The applicable Generator Owner coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator regarding requested interconnections to its Facilities, but failed to provide data necessary to perform studies as described in one of the Parts (R1, 1.1-1.4).	The applicable Generator Owner coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator regarding requested interconnections to its Facilities, but failed to provide data necessary to perform studies as described in two of the Parts (R1, 1.1-1.4).	The applicable Generator Owner coordinated and cooperated on studies with its Transmission Planner or Planning Coordinator regarding requested interconnections to its Facilities, but failed to provide data necessary to perform studies as described in three of the Parts (R1, 1.1-1.4).	The applicable Generator Owner failed to coordinate and cooperate on studies with its Transmission Planner or Planning Coordinator regarding requested interconnections to its Facilities.

D. Regional Variances

None.

E. Interpretations

None.

F. Associated Documents

None

Guidelines and Technical Basis

Entities should have documentation to support the technical rationale for determining whether an existing interconnection was "materially modified." Recognizing that what constitutes a "material modification" will vary from entity to entity, the intent is for this determination to be based on engineering judgment.

Version History

Version	sion Date Action		Change Tracking
0	April 1, 2005	Effective Date	New
0	January 13, 2006	Removed duplication of "Regional Reliability Organizations(s).	Errata
1	August 5, 2010	Modified to address Order No. 693 Directives contained in paragraph 693. Adopted by the NERC Board of Trustees.	Revised
1	February 7, 2013	R2 and associated elements approved by NERC Board of Trustees for retirement as part of the Paragraph 81 project (Project 2013-02) pending applicable regulatory approval.	
1	November 21, 2013	R2 and associated elements approved by FERC for retirement as part of the Paragraph 81 project (Project 2013- 02)	
2		Revisions to implement the recommendations of the FAC Five-Year Review Team.	Revision under Project 2010-02
2	August 14, 2014	Adopted by the Board of Trustees.	
2	November 6, 2014	FERC letter order issued approving FAC-002-2.	

A. Introduction

1. Title: System Protection Coordination

2. **Number:** PRC-001-1.1(ii)

3. Purpose:

To ensure system protection is coordinated among operating entities.

4. Applicability

- **4.1.** Balancing Authorities
- **4.2.** Transmission Operators
- **4.3.** Generator Operators

5. Effective Date:

See the Implementation Plan for PRC-001-1.1(ii).

B. Requirements

- **R1.** Each Transmission Operator, Balancing Authority, and Generator Operator shall be familiar with the purpose and limitations of Protection System schemes applied in its area.
- **R2.** Each Generator Operator and Transmission Operator shall notify reliability entities of relay or equipment failures as follows:
 - **R2.1.** If a protective relay or equipment failure reduces system reliability, the Generator Operator shall notify its Transmission Operator and Host Balancing Authority. The Generator Operator shall take corrective action as soon as possible.
 - **R2.2.** If a protective relay or equipment failure reduces system reliability, the Transmission Operator shall notify its Reliability Coordinator and affected Transmission Operators and Balancing Authorities. The Transmission Operator shall take corrective action as soon as possible.
- **R3.** A Generator Operator or Transmission Operator shall coordinate new protective systems and changes as follows.
 - **R3.1.** Each Generator Operator shall coordinate all new protective systems and all protective system changes with its Transmission Operator and Host Balancing Authority.
 - Requirement R3.1 is not applicable to the individual generating units of dispersed power producing resources identified through Inclusion I4 of the Bulk Electric System definition.
 - **R3.2.** Each Transmission Operator shall coordinate all new protective systems and all protective system changes with neighboring Transmission Operators and Balancing Authorities.

LECTRONICALLY FILED - 2020 July 14 4:54 PM - SCPSC - Docket # 2020-63-E - Page 18 of 22

- **R4.** Each Transmission Operator shall coordinate Protection Systems on major transmission lines and interconnections with neighboring Generator Operators, Transmission Operators, and Balancing Authorities.
- **R5.** A Generator Operator or Transmission Operator shall coordinate changes in generation, transmission, load or operating conditions that could require changes in the Protection Systems of others:
 - **R5.1.** Each Generator Operator shall notify its Transmission Operator in advance of changes in generation or operating conditions that could require changes in the Transmission Operator's Protection Systems.
 - **R5.2.** Each Transmission Operator shall notify neighboring Transmission Operators in advance of changes in generation, transmission, load, or operating conditions that could require changes in the other Transmission Operators' Protection Systems.
- **R6.** Each Transmission Operator and Balancing Authority shall monitor the status of each Special Protection System in their area, and shall notify affected Transmission Operators and Balancing Authorities of each change in status.

C. Measures

- M1. Each Generator Operator and Transmission Operator shall have and provide upon request evidence that could include but is not limited to, revised fault analysis study, letters of agreement on settings, notifications of changes, or other equivalent evidence that will be used to confirm that there was coordination of new protective systems or changes as noted in Requirements 3, 3.1, and 3.2.
- M2. Each Transmission Operator and Balancing Authority shall have and provide upon request evidence that could include but is not limited to, documentation, electronic logs, computer printouts, or computer demonstration or other equivalent evidence that will be used to confirm that it monitors the Special Protection Systems in its area. (Requirement 6 Part 1)
- M3. Each Transmission Operator and Balancing Authority shall have and provide upon request evidence that could include but is not limited to, operator logs, phone records, electronic-notifications or other equivalent evidence that will be used to confirm that it notified affected Transmission Operator and Balancing Authorities of changes in status of one of its Special Protection Systems. (Requirement 6 Part 2)

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organizations shall be responsible for compliance monitoring.

1.2. Compliance Monitoring and Reset Time Frame

One or more of the following methods will be used to assess compliance:

- Self-certification (Conducted annually with submission according to schedule.)
- Spot Check Audits (Conducted anytime with up to 30 days notice given to prepare.)
- Periodic Audit (Conducted once every three years according to schedule.)
- Triggered Investigations (Notification of an investigation must be made within 60 days of an event or complaint of noncompliance. The entity will have up to 30 days to prepare for the investigation. An entity may request an extension of the preparation period and the extension will be considered by the Compliance Monitor on a case-by-case basis.)

The Performance-Reset Period shall be 12 months from the last finding of non-compliance.

1.3. Data Retention

Each Generator Operator and Transmission Operator shall have current, in-force documents available as evidence of compliance for Measure 1.

Each Transmission Operator and Balancing Authority shall keep 90 days of historical data (evidence) for Measures 2 and 3.

If an entity is found non-compliant the entity shall keep information related to the noncompliance until found compliant or for two years plus the current year, whichever is longer.

Evidence used as part of a triggered investigation shall be retained by the entity being investigated for one year from the date that the investigation is closed, as determined by the Compliance Monitor,

The Compliance Monitor shall keep the last periodic audit report and all requested and submitted subsequent compliance records.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance for Generator Operators:

- **2.1.** Level 1: Not applicable.
- 2.2. Level 2: Not applicable.
- **2.3.** Level 3: Not applicable.
- **2.4.** Level 4: Failed to provide evidence of coordination when installing new protective systems and all protective system changes with its Transmission Operator and Host Balancing Authority as specified in R3.1.

3. Levels of Non-Compliance for Transmission Operators:

- **3.1.** Level 1: Not applicable.
- **3.2.** Level 2: Not applicable.

- **3.3.** Level 3: Not applicable.
- **3.4.** Level 4: There shall be a separate Level 4 non-compliance, for every one of the following requirements that is in violation:
 - **3.4.1** Failed to provide evidence of coordination when installing new protective systems and all protective system changes with neighboring Transmission Operators and Balancing Authorities as specified in R3.2.
 - **3.4.2** Did not monitor the status of each Special Protection System, or did not notify affected Transmission Operators, Balancing Authorities of changes in special protection status as specified in R6.

4. Levels of Non-Compliance for Balancing Authorities:

- **4.1.** Level 1: Not applicable.
- **4.2.** Level 2: Not applicable.
- **4.3.** Level 3: Not applicable.
- **4.4.** Level 4: Did not monitor the status of each Special Protection System, or did not notify affected Transmission Operators, Balancing Authorities of changes in special protection status as specified in R6.

E. Regional Differences

None identified.

Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New
0	August 8, 2005	Removed "Proposed" from Effective Date	Errata
0	August 25, 2005	Fixed Standard number in Introduction from PRC-001-1 to PRC-001-0	Errata
1	November 1, 2006	Adopted by the NERC Board of Trustees	Revised
1.1	April 11, 2012	Errata adopted by the Standards Committee; (Capitalized "Protection System" in accordance with Implementation Plan for Project 2007- 17 approval of revised definition of "Protection System")	Errata associated with Project 2007-17
1.1	1.1 September 9, 2013 Informational filing subther revised definition of System in accordance volume Implementation Plan for term.		

1.1(i)	November 13, 2014	Adopted by the NERC Board of Trustees	Replaced references to Special Protection System and SPS with Remedial Action Scheme and RAS
1.1(ii)	February 12, 2015	Adopted by the NERC Board of Trustees	Standard revised in Project 2014-01: Applicability revised to clarify application of requirements to BES dispersed power producing resources
2	May 9, 2012	Adopted by Board of Trustees	Deleted Requirements R2, R5, and R6.
1.1(ii)	May 29, 2015	FERC Letter Order in Docket No. RD15-3-000 approving PRC-001-1.1(ii)	Modifications to adjust the applicability to owners of dispersed generation resources.

Rationale:

During development of this standard, text boxes were embedded within the standard to explain the rationale for various parts of the standard. Upon BOT approval, the text from the rationale text boxes was moved to this section.

Rationale for the Applicability Exclusion in Requirement R3.1

Coordination of new or changes to protective systems associated with dispersed power producing resources identified through Inclusion I4 of the BES definition are typically performed on the interconnecting facilities. New or changes to protective systems associated with these facilities should be coordinated with the TOP as these protective systems typically must be closely coordinated with the transmission protective systems to ensure the overall protection systems operates as designed. While the protective systems implemented on the individual generating units of dispersed power producing resources at these dispersed power producing facilities (i.e. individual wind turbines or solar panels/inverters) may in some cases need to be coordinated with other protective systems within the same dispersed power producing facility, new or changes to these protective systems do not need to be coordinated with the

ELECTRONICALLY FILED - 2020 July 14 4:54 PM - SCPSC - Docket # 2020-63-E - Page 22 of 22

transmission protective systems, as this coordination would not provide reliability benefits to the BES.